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## (54) STRUCTURE OF PREAMBLE

(57)Abstract:

PROBLEM TO BE SOLVED: To optimize the time domain signal characteristic of an A field.  
SOLUTION: The time domain signal of an A field of a preamble for synchronization in an OFDM (orthogonal frequency division multiplexing) transmitting system is generated by performing inverse fast Fourier transform of a frequency domain string SA composed of twelve complex symbols mapped by inverse fast Fourier transform of 64 points based on a mapping rule S-26,  $26 = \sqrt{2} * (0, 0, 0, 0, S1, 0, 0, 0, S2, 0, 0, 0, S3, 0, 0, 0, S4, 0, 0, 0, S5, 0, 0, 0, S6, 0, 0, 0, S7, 0, 0, 0, S8, 0, 0, 0, S9, 0, 0, 0, S10, 0, 0, 0, S11, 0, 0, 0, S12, 0, 0, 0, 0)$ . The frequency domain string SA of the A field is represented by, for instance,  $S1, \dots, S12 = +A, +A, +A, +A, -A, -A, +A, -A, +A, -A$  or  $S1, \dots, S12 = -A, +A, -A, +A, +A, -A, -A, +A, +A, +A$ .

## LEGAL STATUS

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